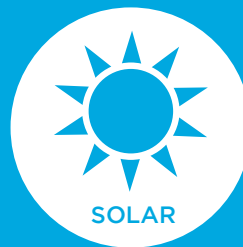


HYDROGEN

A Flexible
Energy Carrier

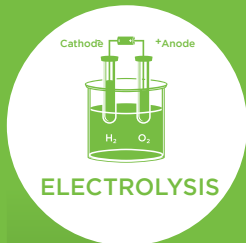


1. SOURCES OF ENERGY

Hydrogen can be produced
using diverse, domestic
resources.



2. PRODUCTION PATHWAYS



Hydrogen can be produced
using a number of different
processes.

10 million metric tons
of hydrogen
are produced
per year.



3. ENERGY CARRIER

Hydrogen is the simplest and most
abundant element known. It is an
energy carrier, not an energy source
and can deliver or store energy. It has
a very high energy content and can
be used in fuel cells to generate
electricity or power and heat.

4. USES FOR H₂

Petroleum refining and fertilizer production are the
largest uses of hydrogen today, while transportation
and utilities are emerging markets. Hydrogen and
fuel cells can provide energy for use in diverse
applications, including distributed or
combined-heat-and-power; backup power;
systems for storing and enabling renewable
energy; portable power; auxiliary power for trucks,
aircraft, rail, and ships;
specialty vehicles such as forklifts;
and passenger and freight vehicles,
including cars, trucks and buses.

